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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/987,901	11/16/2001	Yasunori Toda	011543	7804
	9590 03/14/200 HATTORI, DANIEL		EXAM	INER
1250 CONNECT	NECTICUT AVENUE, NW HARMON, CHRISTOPHER R			RISTOPHER R
SUITE 700 WASHINGTON, DC 20036 ART UNIT			ART UNIT	PAPER NUMBER
		3721		
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SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MON	THS	03/14/2007	PAI	PER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)	-
	09/987,901	TODA, YASUNORI	
Office Action Summary	Examiner	Art Unit	
	Christopher R. Harmon	3721	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with	the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory perions - Failure to reply within the set or extended period for reply will, by state that the period for reply will, by state that the material patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION OF THIS COMMUNICA	ATION. Ily be timely filed HS from the mailing date of this communication NDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 11	January 2007.		
2a) This action is FINAL . 2b) ⊠ TI	his action is non-final.		
3) Since this application is in condition for allow			5
closed in accordance with the practice unde	r <i>Ex parte Quayle</i> , 1935 C.D.	11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-3 and 5-9</u> is/are pending in the a	pplication.		
4a) Of the above claim(s) is/are withd	rawn from consideration.		
5) Claim(s) is/are allowed.			
6) Claim(s) <u>1-3 and 5-9</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	d/or election requirement.	,	
Application Papers			
9)☐ The specification is objected to by the Exami	iner.		
10)☐ The drawing(s) filed on is/are: a)☐ a	ccepted or b) objected to by	y the Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the corr			d).
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for forei	gn priority under 35 U.S.C. §	119(a)-(d) or (f).	
a)⊠ All b)□ Some * c)□ None of:			
1.⊠ Certified copies of the priority docume		-Pasta - Na	
2. Certified copies of the priority docume			
 Copies of the certified copies of the properties of the		eceived in this National Stage	
* See the attached detailed Office action for a		eceived	
dec the attached detailed emoc detail. (c)			
Attachment(s)			
1) Notice of References Cited (PTO-892)		mmary (PTO-413) /Mail Date	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	5) D Notice of Inf	ormal Patent Application	
Paper No(s)/Mail Date	6) Other:	_	

Application/Control Number: 09/987,901 Page 2

Art Unit: 3721

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/14/06 has been entered.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3 and 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hayashi (JP 07-041244).

Hayashi discloses a pivotable swing arm 5 for guiding a continuous paper for accordion folding with equal widths as a result of the swinging action of the arm; table (below container 2) that receives the folded paper; see figures 2-3. The swing arm comprises an arm main body 5, sub-arm 8 (rectangular plates 84) that pivots along an axis (pivot axis at top of body 5, fig. 3) by operation of motor 10 disposed within the

Application/Control Number: 09/987,901

Art Unit: 3721

axis, see fig. 4. Hayashi does not directly disclose a telescoping motor but rather a telescoping actuator cylinder assembly 9.

The common knowledge modification previously taken, ie. that motors and cylinders are well known in the art as alternates for actuating mechanical movement, is taken to be admitted prior art because applicant failed to traverse the examiner's previous assertion of Official Notice.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to substitute a motor for the cylinder assembly in Hayashi for extending and retracting the sub-arm plates 84.

Hayashi does not also disclose the condition of both plate members 84 projecting from the tip of the arm main body when the arm swings to either side but rather only a single plate. Because each plate 84 is fully capable of projecting as claimed, and does so alternately upon swinging to either side, the examiner concludes the conditional limitation amounts to a mere design choice of actuation. Note: that while features of an apparatus may be recited either structurally or functionally, claims directed towards an apparatus must be distinguished from the prior art in terms of structure rather than function. See *In re Schreiber*, 128 F.3d 1473-78, 44 USPQ2d 1429-32 (Fed.Cir. 1997) and *Hewlett-Packard Co. v. Bausch & Lomb Inc.*, 909 F.2d 1464, 1469, 15 USPQ2d 1525, 1528 (Fed.Cir. 1990).

Regarding claim 3, Hayashi discloses lifting mechanism 7 for raising the swing arm so that it does not contact the surface of the folded continuous paper.

Regarding the limitation of "perforations", note: "Expressions relating the apparatus to contents thereof during an intended operation are of no significance in determining patentability of the apparatus claim." *Ex parte Thibault*, 164 USPQ 666 (Bd. App. 1969). The apparatus of Hayashi is fully capable of performing folds to perforated paper along such perforations as claimed.

3. Claims 5-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hayashi (JP 07-041244) in view of Martin et al. (US 5,062,597).

Regarding claim 5, Hayashi does not directly disclose a table that moves vertically nor has a detection mechanism for controlling vertical movement of the table. However Martin et al. describe a vertically controlled table 47; creasing mechanism 13; see figure 1. Sensors 40 detect proper positioning of the stacked paper and control raising and lowering of the table according to preset values; see column 5, lines 55-68.

The table control system of Martin et al. comprises a resetting system, which performs lowering and raising of the table upon detection positioning of the folded paper. The programmable control mechanism does not structurally limit the claimed invention. The term "error" is considered in a broad context ie. a fold error is considered present when the folded paper stack reaches over the desired height.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the table and controls of Martin et al. in the invention of Hayashi in order to manipulate the folds and the stacks without interference. Note that Hayashi solves this problem by different means ie. lifting mechanism 7.

Regarding claim 6, Hayashi does not directly disclose the device in use with a printing apparatus however Martin et al. discloses a printing apparatus in combination with a piling device. It would have been obvious to one of ordinary skill in the art at the time of the invention to provide the piling device of Hayashi in a continuous medium printing apparatus as taught by Martin et al. for stacking piles of printed matter.

Regarding claim 7, Hayashi does not directly disclose the use of a creasing mechanism for creasing the continuous paper in equal widths however Martin et al. teach a creasing mechanism 35; see figure 5. It would have been obvious to one of ordinary skill in the art at the time of the invention to include the creasing mechanism of Martin et al. in the invention to Hayashi for insuring the folding of the continuous paper at the edge location.

Response to Arguments

4. Applicant's arguments filed 12/14/06 have been fully considered but they are not persuasive. Regarding the position of the motor, the element clearly in the pivot axis of the swing arm (figure 4) is considered an integral part of the motor. Furthermore, note that it has been held that rearranging parts of an invention involves only routine skill in the art. *In re Japikse*, 86 USPQ 70.

Regarding the common knowledge modification previously taken (Official Notice), in order to adequately traverse such a finding, an applicant must specifically point out the supposed errors in the examiner's action, which would include stating why the noticed fact is not considered to be common knowledge or well-known in the art. See 37 CFR 1.111(b). See MPEP 2144.03(c) and also Chevenard, 139 F.2d at 713, 60 USPQ

Application/Control Number: 09/987,901 Page 6

Art Unit: 3721

at 241. Applicant admits that motors and cylinders are well known in the art as alternative means of actuation, see Response page 8, last paragraph. The subsequent arguments concerning whether or not they are "equivalents" is moot because the assertion was not made by the examiner. Furthermore, the citation to *In re Ruff*, 118 USPQ 340 (1958) does not apply to the instant case because the reliance there was upon applicant's own disclosure of what was considered an "equivalent" and not the prior art. In the instant case the examiner took the position that motors and cylinders are well known in the art as alternates for actuating mechanical devices. Because applicant expressly agreed in the Response of 12/14/06, without differentiating the two, other than that each "impart particular benefits and drawbacks" (page 8, last line), the modification is considered admittedly obvious to one of ordinary skill in the art.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher R. Harmon whose telephone number is (571) 272-4461. The examiner can normally be reached on Monday-Friday from 9-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rinaldi Rada can be reached on (571) 272-4467. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 09/987,901 Page 7

Art Unit: 3721

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Patent Examiner